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**(54) PRODUCTION OF HYDROGEN PEROXIDE**

**(57) Abstract:**

**PURPOSE:** To obtain concd.  $H_2O_2$  with high hydrogen selectivity without incorporating halogen into an aq. soln. by allowing  $O_2$  to react with  $H_2$  with a modified platinum-group metal catalyst on which an element selected from copper, iron, nickel, etc., and a platinum-group metal are simultaneously deposited.

and Co and a platinum-group metal are deposited on a carrier (zirconium oxide, aluminum oxide, silicon oxide, titanium oxide, etc.) to prepare a modified platinum-group metal catalyst.  $O_2$  is allowed to catalytically react with  $H$  in a reaction medium by using the catalyst to obtain  $H_2O_2$ . The medium is formed with an aq. acidic soln. free of halogen and contg. an  $H_2O_2$  stabilizer such as aminotri(methylenephosphonic acid) and pyrophosphoric acid.

**CONSTITUTION:** An element selected from Cu, Fe, Ni

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